

What is claimed is:

1. A vacuuming motor, for being attached to a peripheral edge of a motor attaching hole of a vacuum chamber, comprising:

5 a reduction gear main body attached to an end portion on a load side of a motor main body, including an attaching flange fixed to the motor attaching hole to interpose an O-ring therebetween; and

a vacuum seal fixed to the attaching flange, made of
10 resin, contacting slidably with an output shaft of a reduction gear, for partitioning an inner space of the reduction gear main body and the motor main body and an inner space of the vacuum chamber.

15 2. The vacuum motor according to Claim 1, wherein the attaching flange includes:

a seal holding portion fixed with vacuum seals respectively at vicinities of both end portions thereof in an axial direction, having a middle sucking port for vacuuming
20 air at an interval between the vacuum seals at a central portion thereof; and

a chamber attaching portion having a ring-like shape, attached to the seal holding portion or integrally formed therewith, attached to a peripheral edge of the motor attaching
25 hole of the vacuum chamber.

3. A vacuuming apparatus comprising:

a vacuum chamber having a motor attaching hole therein;

a motor main body;

5 a reduction gear main body attached between the motor main body and a vacuum chamber, including an attaching flange attached to a peripheral edge of the motor attaching hole of the vacuum chamber via an O-ring,

vacuum seals fixed to an inner surface of the attaching
10 flange on two portions apart in an axial direction of an output shaft of a reduction gear, contacting slidably with the output shaft of the reduction gear,

a middle sucking port for vacuuming air at an interval between the vacuum seals.

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